## **AMENDMENTS TO THE CLAIMS**

Claims 22-88 are pending in the Application and all are rejected in the Office action mailed September 7, 2006. Claims 73 and 85 are amended by this response. Claims 22, 39, 58 and 73 are independent claims. Claims 23-38, 40-57, 59-72 and 74-88 depend from independent claims 22, 39, 58 and 73, respectively.

The following listing of claims replaces all previous versions, and listings, of claims in the Application.

## **Listing of Claims:**

Claims 1-21 (Canceled).

22. (Previously presented) A communication network supporting the exchange of voice and data, the network comprising:

at least one portable terminal having a wireless transceiver adapted for communication using a packet protocol;

the at least one portable terminal adapted for converting sound into digital voice packets for transmission via the wireless transceiver, and for receiving digital voice packets via the wireless transceiver, the contents of the digital voice packet for conversion into sound;

the at least one portable terminal adapted for capturing digital data into data packets for transmission via the wireless transceiver, and for receiving data packets via the wireless transceiver, the contents of the data packets used for reproducing digital data;

at least one access device having a wireless transceiver for exchanging one or both of digital voice packets and digital data packets with the at least one portable terminal, the at least one access device comprising a network interface for exchanging information via a wired network;

the at least one access device selectively transferring to its wireless transceiver for

transmission at least a portion of the information received from its network interface, and

selectively transferring to its network interface for transmission at least a portion of the

information received by its wireless transceiver; and

wherein digital voice packets wirelessly exchanged by the at least one portable terminal

comprise destination information used for routing the digital voice packets through the

communication network.

23. (Previously presented) The communication network of claim 22 wherein the

wireless transceivers communicate at a frequency of approximately 2.4 gigahertz.

24. (Previously presented) The communication network of claim 22 wherein the

wireless transceivers communicate using a frequency hopping spread spectrum technique.

25. (Previously presented) The communication network of claim 22 wherein the

wireless transceivers communicate using a direct sequence spread spectrum technique.

26. (Previously presented) The communication network of claim 22 wherein the packet

protocol comprises an Internet protocol (IP).

27. (Previously presented) The communication network of claim 26 wherein the Internet

protocol is the transmission control protocol (TCP)/Internet protocol (IP) protocol.

28. (Previously presented) The communication network of claim 22 wherein the packets

exchanged by the at least one portable terminal comprise digital voice packets and data packets.

29. (Previously presented) The communication network of claim 22 wherein packets are

transported wirelessly without regard to content.

30. (Previously presented) The communication network of claim 22 wherein the wired

network comprises a packet network.

31. (Previously presented) The communication network of claim 30 wherein the packet network uses an Internet protocol (IP).

- 32. (Previously presented) The communication network of claim 30 wherein the Internet protocol is the transmission control protocol (TCP)/Internet protocol (IP) protocol.
- 33. (Previously presented) The communication network of claim 22 wherein the wired network comprises an Ethernet compliant network.
- 34. (Previously presented) The communication network of claim 22 wherein the wired network comprises a conventional switched telephone network.
- 35. (Previously presented) The communication network of claim 33 wherein the network interface communicates via the wired network in digital form.
- 36. (Previously presented) The communication network of claim 22 wherein the communication network supports the establishment of voice calls by the at least one portable terminal via the wired network.
- 37. (Previously presented) The communication network of claim 22 wherein the communication network supports the receipt of voice calls by the at least one portable terminal from the wired network.
- 38. (Previously presented) The communication network of claim 22 wherein the communication network supports the concurrent exchange of data unrelated to a voice call.
- 39. (Previously presented) A communication network supporting the exchange of voice and data, the network comprising:

at least one portable terminal having a wireless transceiver adapted for communication using a packet protocol;

the at least one portable terminal arranged to exchange via the wireless transceiver packets comprising digital representations of sound;

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the at least one portable terminal adapted to exchange via the wireless transceiver packets

comprising digital data;

at least one access device having a wireless transceiver for exchanging one or both of

packets comprising digital representations of sound and packets comprising digital data with the

at least one portable terminal and comprising at least one network interface for exchanging

information via a wired network;

the at least one access device adapting one or both of packets comprising digital

representations of sound and packets comprising digital data from its wireless transceiver for

transmission via a designated one of the at least one network interface, and for adapting

information from the designated one of the at least one network interface for transmission as one

or both of packets comprising digital representations of sound and packets comprising digital

data via its wireless transceiver; and

wherein the packets comprising digital representations of sound also comprise destination

information used for routing the packets through the communication network.

The communication network of claim 39 wherein the 40. (Previously presented)

wireless transceivers communicate at a frequency of approximately 2.4 gigahertz.

(Previously presented) The communication network of claim 39 wherein the 41.

wireless transceivers communicate using a frequency hopping spread spectrum technique.

(Previously presented) The communication network of claim 39 wherein the 42.

wireless transceivers communicate using a direct sequence spread spectrum technique.

43. (Previously presented) The communication network of claim 39 wherein the packet

protocol comprises an Internet protocol (IP).

- 44. (Previously presented) The communication network of claim 43 wherein the Internet protocol is the transmission control protocol (TCP)/Internet protocol (IP) protocol.
- 45. (Previously presented) The communication network of claim 39 wherein the packets exchanged by the at least one portable terminal comprise digital voice packets and data packets.
- 46. (Previously presented) The communication network of claim 39 wherein packets are transported wirelessly without regard to content.
- 47. (Previously presented) The communication network of claim 39 wherein the wired network comprises a packet network.
- 48. (Previously presented) The communication network of claim 47 wherein the packet network uses an Internet protocol (IP).
- 49. (Previously presented) The communication network of claim 47 wherein the Internet protocol is the transmission control protocol (TCP)/Internet protocol (IP) protocol.
- 50. (Previously presented) The communication network of claim 39 wherein the wired network comprises an Ethernet compliant network.
- 51. (Previously presented) The communication network of claim 39 wherein the wired network comprises a conventional switched telephone network.
- 52. (Previously presented) The communication network of claim 51 wherein the network interface communicates via the wired network using digital information.
- 53. (Previously presented) The communication network of claim 39 wherein the communication network supports the establishment of voice calls by the at least one portable terminal via the wired network.
- (Previously presented) The communication network of claim 39 wherein the communication network supports the receipt of voice calls by the at least one portable terminal from the wired network.

55. (Previously presented) The communication network of claim 39 wherein the

communication network supports the concurrent exchange of data unrelated to a voice call.

56. (Previously presented) The communication network of claim 39 wherein the

designated one of the at least one network interface is designated based upon information

received via the wireless transceiver.

57. (Previously presented) The communication network of claim 39 wherein the

designated one of the at least one network interface is designated based upon information

received via the network interface.

58. (Previously presented) A communication device supporting the exchange of voice

and data, the device comprising:

wireless communication circuitry for communicating using a packet protocol;

circuitry for converting an electrical signal representative of sound into digital voice

packets for transmission via the wireless communication circuitry, and for receiving digital voice

packets via the wireless communication circuitry, the contents of the received digital voice

packets for conversion into sound;

circuitry for capturing digital data into data packets for transmission via the wireless

communication circuitry, and for receiving data packets via the wireless communication

circuitry, the contents of the received data packets used for reproducing digital data;

wherein the wireless communication circuitry exchanges packets with at least one access

device of a communication network; and

wherein digital voice packets wirelessly exchanged by the communication device and the

at least one access device comprise destination information used for routing the digital voice

packets through the communication network.

59. (Previously presented) The device of claim 58 wherein the packet protocol comprises an Internet protocol (IP).

- 60. (Previously presented) The device of claim 59 wherein the Internet protocol is the transmission control protocol (TCP)/Internet protocol (IP) protocol.
- 61. (Previously presented) The device of claim 58 wherein the at least one access device comprises a network interface circuit that communicates using a packet protocol.
- 62. (Previously presented) The device of claim 61 wherein the packet protocol is the transmission control protocol (TCP)/Internet protocol (IP) protocol.
- 63. (Previously presented) The device of claim 58 wherein the at least one access device comprises a network interface circuit that communicates using a wired network.
- 64. (Previously presented) The device of claim 63 wherein the wired network comprises a public switched telephone network.
- 65. (Previously presented) The device of claim 64 wherein the network interface circuit is compatible with a conventional analog loop connection.
- 66. (Previously presented) The device of claim 58 wherein the contents of each digital voice packet transmitted wirelessly by a communication device of a first party is received in a digital voice packet by a destination party.
- 67. (Previously presented) The device of claim 58 wherein the communication network comprises a plurality of access devices, and wherein routing of digital voice packets between access devices is based upon a cost.
- 68. (Previously presented) The device of claim 58, wherein a user is prompted to select a routing alternative using routing information received by the communication device.
- 69. (Previously presented) The device of claim 58, wherein the wireless communication circuitry comprises at least one wireless receiver and at least one wireless transmitter.

70. (Previously presented) The device of claim 69, wherein the at least one wireless

receiver and the at least one wireless transmitter comprises a single transceiver.

71. (Previously presented) The device of claim 58, wherein the wireless communication

circuitry comprises at least one transceiver.

72. (Previously presented) The device of claim 71, wherein the at least one transceiver

comprises a single transceiver.

73. (Currently amended) One or more circuits for use in a communication device

supporting the exchange of voice and data, the one or more circuits comprising:

at least one interface to circuitry for wirelessly exchanging one or both of digitized voice

packets and data packets with at least one access device of a communication network using a

packet protocol; and

at least one processor operably coupled to the at least one interface, the at least one

processor operating to:

convert [[an]] a first electrical signal representative of sound into first digital

voice data for wireless transmission as digital voice packets, and to convert second digital

voice data wirelessly received in digital voice packets to [[an]] a second electrical signal

representative of sound,

capture digital data into data packets for wireless transmission, and to reproduce

digital data from wirelessly received data packets, and

wherein digital voice packets wirelessly exchanged by the communication device and the

at least one access device comprise destination information used for routing the digital voice

packets through the communication network.

74. (Previously presented) The one or more circuits of claim 73 wherein the packet

protocol comprises an Internet protocol (IP).

75. (Previously presented) The one or more circuits of claim 74 wherein the Internet

protocol is the transmission control protocol (TCP)/Internet protocol (IP) protocol.

76. (Previously presented) The one or more circuits of claim 73 wherein the contents of

each digital voice packet transmitted wirelessly by a communication device of a first party is

received in a digital voice packet by a destination party.

77. (Previously presented) The one or more circuits of claim 73 wherein the at least one

processor queues received digital voice data and delays conversion of queued digital voice data

for an adjustable period of time.

78. (Previously presented) The one or more circuits of claim 77 wherein the at least one

processor adjusts the period of time based upon a network propagation delay.

79. (Previously presented) The one or more circuits of claim 77 wherein the at least one

processor determines the adjustable period of time using a packet sent to the communication

device in response to a packet sent by the communication device.

80. (Previously presented) The one or more circuits of claim 79 wherein the packet sent

by the communication device is a test packet.

81. (Previously presented) The one or more circuits of claim 73 wherein the wireless

communication employs a frequency of approximately 2.4 gigahertz.

82. (Previously presented) The one or more circuits of claim 73 wherein the

communication device employs a frequency hopping spread spectrum technique.

83. (Previously presented) The one or more circuits of claim 73 wherein the

communication device employs a direct sequence spread spectrum technique.

84. (Previously presented) The one or more circuits of claim 73 wherein digitized voice

packets and data packets are transported wirelessly without regard to content.

85. (Currently amended) The one or more circuits of claim 73 wherein the at least one processor [[is]] further operable operates to cause routing of one of the following: digital voice data, digital voice packets and electrical signals representative of sound, over a wired network.

- 86. (Previously presented) The one or more circuits of claim 85 wherein the routing is based upon input of a user of the communication device.
- 87. ((Previously presented) The one or more circuits of claim 85 wherein the wired network is a packet network.
- 88. (Previously presented) The one or more circuits of claim 85 wherein the wired network is a public switched telephone network.